| W/ O NUMBE                                      | R:  |                                |                           |                                      |                    |                  |                              |                |  |  |
|---|---|--------------------------------|---------------------------|--------------------------------------|--------------------|------------------|------------------------------|----------------|--|--|
| Catalog #:                                      |   | Unit Seria                     | al #:                     |                                      | ‡ 18-077- <b>8</b> | 77- & Rev. #:    |                              |                |  |  |
| Test using Q<br>5.1.3.1 Final<br>5.1.3.2 Verify | A-256<br>Assembly Route<br>Serial Number  | er completed<br>on back of U   | I up to Sto<br>Init to DH | nit to DHR and Final Assembly Router |                    |                  |                              |                |  |  |
| Harne<br>6.1.3.4 Verify                         | k hardware (8 so<br>esses are plugge<br>on Main PCB th<br>on Main PCB th<br>STING | ed in correct<br>nat C40 is no | ly and Re<br>t in conta   | lay PCB is se<br>ct with R42         | ated secure        | ely.<br>         | ☐ Comp<br>☐ Compl<br>☐ Compl | leted          |  |  |
|   | n Testing Perfor  | med By/Date                    | e:                        |                                      |                    |                  |                              |                |  |  |
| NEM Calibra                                     |   | ☐ Pass [                       | Fail                      | Split pad up                         | per trip res       | ( 6.2.13) 13     | 0 ≤:                         | <u>≤ 140 Ω</u> |  |  |
| In Solid Pad                                    | @ 0Ω  | ☐ Pass [                       | ☐ Fail                    | Solid pad upp                        | er trip res.       | 5                | 5 ≤≤                         | ≦9Ω            |  |  |
| Solid pad lim                                   | it once established   | d 20 ≤                         | <u></u> ≤ 25Ω             | Split pad lowe                       | r trip res.        |                  |                              | <u>≤ 12Ω</u>   |  |  |
| Split pad low                                   | limit   | 2 ≤                            | ≤ 6Ω                      |                                      |                    | T FIXTURE        |                              |                |  |  |
| % increase in                                   | n split to cause ala  | rm                             | %                         | Resistance S                         | ubstitution        | E                | q. #                         | _              |  |  |
| Upper hard li                                   | imit res.   | 145 ≤                          | ≤ 155Ω                    | Dial Resistan                        | ce Test Fixtu      | ıre # <u>_F-</u> | 273                          |                |  |  |
| 6.3 Service                                     | Mode Data / 5 V   | DC                             |                           |                                      |                    |                  |                              |                |  |  |
| MULTIMET  | ER ID #:  |                                |                           | Reading take                         | en at Min LE       |                  | <                            | _≤ 5.10 VDC    |  |  |
| Mode  | Power Setting   | V Setting                      | V (No                     | Activation)                          |                    | Circuit)         | V (Arcing)                   |                |  |  |
| Cut I (Cut)                                     | MAX POWER   | -12                            | 10.4 ≤                    | ≤13.6V                               | 10.4 ≤             | <u></u> ≤        | 10.4 ≤                       | ≤ 13.6V        |  |  |
|   |   | 5.0                            | 4.2 ≤                     | ≤ 6.0V                               |                    | ≤ 6.0V           | 4.2 ≤                        | ≤ 6.0V         |  |  |
|   |   | 2.5                            | 2.2 ≤                     | ≤ 3.3V                               | 2.2 ≤              | ≤ 3.3V           | 2.2 ≤                        | ≤ 3.3V         |  |  |
|   |   | 3.3                            |                           | <br>≤ 4.4V                           | 3.0 ≤              |                  | 3.0 ≤                        | <br>≤ 4.4V     |  |  |
|   |   | 12                             |                           | ≤ <u></u> ≤                          |                    |                  |                              | ≤ 13.6V        |  |  |
| Spray   | 80W   | -12                            | 10.4 :                    | <u> </u>                             | 10.4 ≤             | <u></u> ≤        | <del></del>                  | ≤ 13.6V        |  |  |
| -13   |   | 5.0                            |                           | ≤ 6.0V                               |                    |                  | 4.2 ≤                        |                |  |  |
|   |   | 2.5                            | 2.2 ≤                     | _≤ 3.3V                              | 2.2 ≤              | ≤ 3.3V           | 2.2 ≤                        | ≤ 3.3V         |  |  |
|   |   | 3.3                            | 3.0 ≤                     | ≤ 4.4V                               | 3.0 ≤              | <br>≤ 4.4V       | 3.0 ≤                        | ≤ 4.4V         |  |  |
|   |   | 12                             | 10.4                      | <u> </u>                             | 10.4 ≤             |                  | 10.4 ≤                       | <br>≤ 13.6V    |  |  |
| JP8 Jumpe                                       | r Removed   | Į.                             |                           | (√ whe                               | n done)            | ~\               |                              |                |  |  |
| Performed                                       | By/Date:  |                                |                           |                                      | _                  |                  |                              |                |  |  |
|   |   |                                |                           | A PPT//P                             |                    | ID #             |                              |                |  |  |
| 6.4 Continu                                     | uity Test<br>Chassis Ground   | 0.10                           | S.<br>≥                   | AFETY/ECG A<br>_ Ω                   | ANALYZER I         | טו #: _          |                              |                |  |  |
| 6.5 Line Cu                                     |   | <u></u>                        |                           | <del>-</del>                         |                    |                  |                              |                |  |  |
| Cut Line Cu                                     |   | (400W) 8.0                     | 00 >                      | A                                    | (others) 4         | .50 >            | A                            |                |  |  |

DOC-472 Rev. 24 Effective Date: 12/20/11

**Coag Line Current** 

1.85 >

| Unit | Seria | ıl# | <u>.                                    </u> |  |  |  |  |  |  |
|------|-------|-----|--|--|--|--|--|--|--|
|      |       |     |  |  |  |  |  |  |  |

| 6.6 Low Freq. Risk C   | urrent  | No   | rmal                                | Revei  | 'se                            |
|--|---|--|-------------------------------------|--|--------------------------------|
| Chassis Grounding Lug  |   | 500 ≥  | uA                                  | 500 ≥  | uA                             |
| Return Electrode (1)   | 10uA MAX  | 10 ≥   | u/\<br>uA                           | 10 ≥   | uA                             |
| Return Electrode (2)   | 10uA MAX  | 10 ≥   | uA                                  | 10 ≥   | <u>u, (</u><br>uA              |
| Monopolar Ft-Control   | 10uA MAX  | 10 ≥   | uA                                  | 10 ≥   | <u>u, (</u><br>uA              |
| Monopolar Handpiece  | 10uA MAX  | 10 ≥   | uA                                  | 10 ≥   | uA                             |
| Monopolar Handpiece (  |   | 10 ≥   | uA                                  | 10 ≥   | uA                             |
| Monopolar Handpiece (  |   | 10 ≥   | uA                                  | 10 ≥   | uA                             |
| Bipolar Active   | 10uA MAX  | 10 ≥   | uA                                  | 10 ≥   | uA                             |
| Bipolar Return   | 10uA MAX  | 10 ≥   | uA                                  | 10 ≥   | uA                             |
| Mono Footswitch (Pin 1   | ) 500uA MAX   | 500 ≥  | uA                                  | 500 ≥  | uA                             |
| Mono Footswitch (Pin 2   | 2) 500uA MAX  | 500 ≥  | uA                                  | 500 ≥  | uA                             |
| Mono Footswitch (Pin 3   | 3) 500uA MAX  | 500 ≥  | uA                                  | 500 ≥  | uA                             |
| Mono Footswitch (Pin 4   | 500uA MAX   | 500 ≥  | uA                                  | 500 ≥  | uA                             |
| <b>Bipolar Footswitch (Pin</b>   | 1) 500uA MAX  | 500 ≥  | uA                                  | 500 ≥  | uA                             |
| <b>Bipolar Footswitch (Pin</b>   | 2) 500uA MAX  | 500 ≥  | uA                                  | 500 ≥  | uA                             |
| Bipolar Footswitch (Pin  | 3) 500uA MAX  | 500 ≥  | uA                                  | 500 ≥  | uA                             |
| Performed By/Date: _   |   |  | ]Pass □ F                           | ail  |                                |
| 6.7 INITIAL OUTPUT   | POWER TEST ES A   | NALYZER ID#  |                                     | Output   | [Watts]                        |
| Cut I (Max Power)  | 400W @ 500Ω, 300W or<br>200W @ 300Ω   | ( <b>400W</b> )320 ≤ or (                                    | ≤ 480W or (<br>( <b>200W)</b> 160 ≤ |  | ≤ 360W                         |
| Cut II (if applicable)   | 300W @ 300Ω   |  | <br>240 ≤                           |  |                                |
| Blend  | 200W @ 300Ω   |  | 160 ≤                               |  |                                |
| Pinpoint   | 120W @ 500Ω   |  | 96 ≤                                |  |                                |
| Spray  | 80W @ 500Ω  |  |                                     | <u>-= 14477</u><br>≤ 96W   |                                |
| Bipolar (Max Power)  | 120W or 80W @ 150Ω  | (120W) 96 ≤  |                                     | _  | ≤ 96W                          |
| Performed  | d By/Date:  | _ <u> </u>   |                                     | Pass   Fail  |                                |
|  | ne:: Stop Time:   |  | ——— □<br>□ Pass □                   | <u> </u>   |                                |
| Jumper on JP6 remove   |   |  |                                     | _  |                                |
| diliper on 3F6 remove  |   |  |                                     |  |                                |
| 6.8.6 Post Burn-in drift   | t check: Split pad upper  | trip res. after burn   | -ın                                 | Ω  |                                |
|  | t check: Split pad upper  | •  |                                     | Ω<br><10Ω□ F   | Pass □ I                       |
|  | t check: Split pad upper<br>ance (Drift) difference from<br>Resistance Substitution   | n 6.2.13 and 6.8.6   | 0 ≤                                 | Ω<br>≤ 10Ω   | Pass 🔲                         |
|  | ance (Drift) difference from  | n 6.2.13 and 6.8.6   | 0 ≤                                 |  | _                              |
| Split Change in Resist   | ance (Drift) difference from  | n 6.2.13 and 6.8.6   | 0 ≤                                 | ≤ 10Ω ∏ F  | )#                             |
| Split Change in Resist   | ance (Drift) difference from<br>Resistance Substitution   | n 6.2.13 and 6.8.6<br>on Box Eq. #<br>Test Volta             | 0 ≤<br>ge                           | ≤ 10Ω ∏ F<br>HIPOT ID<br>Results Pas   | #<br>ss / Fail                 |
| Split Change in Resist  6.9 HIPOT TEST  AC Line to: Chassis Gro  | ance (Drift) difference from<br>Resistance Substitution   | n 6.2.13 and 6.8.6<br>on Box Eq. #<br>Test Volta<br>1.84kVA0 | 0 ≤<br>ge<br>C [                    | ≤ 10Ω ☐ F  HIPOT ID  Results Pas  Pass ☐ Fa                                  | <br>)#                         |
| Split Change in Resist  6.9 HIPOT TEST  AC Line to: Chassis Gro AC Line to: Return Elec  | ance (Drift) difference from<br>Resistance Substitution   | n 6.2.13 and 6.8.6<br>on Box Eq. #<br>Test Volta             | 0 ≤<br>ge<br>C [                    | ≤ 10Ω ☐ F  HIPOT ID  Results Pas ☐ Pass ☐ Fa ☐ Pass ☐ Fa                     | —<br>) #<br>ss / Fail          |
| Split Change in Resist  6.9 HIPOT TEST  AC Line to: Chassis Gro  AC Line to: Return Elector AC Line to | ance (Drift) difference from<br>Resistance Substitution   | Test Volta 1.84kVA0 3.0kVA0                                  | 0 ≤<br>ge<br>C [                    | HIPOT ID Results Pas Pass ☐ Fa Pass ☐ Fa Pass ☐ Fa                           | #<br>ss / Fail<br>ail<br>ail   |
| Split Change in Resist  6.9 HIPOT TEST  AC Line to: Chassis Gro AC Line to: Return Elec  | ance (Drift) difference from<br>Resistance Substitution   | Test Volta 1.84kVA0  | 0 ≤<br>ge<br>C [<br>; [             | HIPOT ID  Results Pas  Pass ☐ Fa  Pass ☐ Fa  Pass ☐ Fa  Pass ☐ Fa  Pass ☐ Fa | ) #<br>ss / Fail<br>ail<br>ail |
| 6.9 HIPOT TEST AC Line to: Chassis Gro AC Line to: Return Elec AC Line to: Return Elec AC Line to: Monopolar   | ance (Drift) difference from Resistance Substitution  ound strode ( Pole 1 ) strode ( Pole 2 ) Foot-Control Active Handpiece Active | Test Volta  1.84kVA0 3.0kVA0 3.0kVA0                         | 0 ≤<br>ge<br>C [<br>; [             | HIPOT ID Results Pas Pass ☐ Fa       | )#as / Fail ail ail ail        |

DOC-472 Rev. 24 Effective Date: 12/20/11

Unit Serial #:\_\_\_\_

| 6.10 High Frequency Leakage Testing, Long Leads FM Power Meter ID #: |                           |                          |             |                      |                   |                 |                |             |                            |               |            |           |
|--|---------------------------|--------------------------|-------------|----------------------|-------------------|-----------------|----------------|-------------|----------------------------|---------------|------------|-----------|
| Test @ 2000  | 2                         | Active (Foo              | t)          | Active (Hand)        |                   | Return          | Return (Hand)  |             | Return (Foot)              |               | Pass/ Fail |           |
| Cut I  | 15                        | 50≥r                     | nΑ          | 150≥                 | _mA               | 150≥            | mA             | 150≥        | mA                         | ☐ Pas         | ss 🗌 Fa    | ail       |
| Cut II   | 15                        | 50≥r                     | nΑ          | 150≥                 | _mA               | 150≥            | mA             | 150≥        | mA                         | ☐ Pas         | ss 🗌 Fa    | ail 🗌     |
| Blend (Max   | () 15                     | 50≥r                     | nΑ          | 150≥                 | _mA               | 150≥            | mA             | 150≥        | mA                         | ☐ Pas         | ss 🗌 Fa    | ail       |
| Pinpoint   | 15                        | 50≥r                     | nΑ          | 150≥                 | _mA               | 150≥            | mA             | 150≥        | mA                         | ☐ Pas         | ss 🗌 Fa    | ail       |
| Spray  | 15                        | 50≥r                     | nΑ          | 150≥                 | _mA               | 150≥            | mA             | 150≥        | mA                         | ☐ Pas         | ss 🗌 Fa    | ail       |
| Bipolar  | (                         | 33≥r                     | nΑ          | N/A                  |                   | N/A             |                | 63≥         | mA                         | ☐ Pas         | ss 🗌 Fa    | ail       |
| Performed I  | By/Da                     | te:                      |             |                      |                   |                 |                |             |                            |               |            |           |
| Display, Audi  | io Err                    | ore Arcin                | a (         | ross com             | lo and            | Activati        | on Error       | ·e          |                            |               |            |           |
| 6.11 Displays  |                           |                          | <u>y, c</u> | ☐ Pass [             | Fail              |                 |                | : (All Mode | es)                        | ☐ Pass        | ☐ Fail     |           |
| 6.12 Audio   | •                         |                          |             | <br>☐ Pass           | <br>☐ Fail        |                 |                | Coupling    |                            | <br>☐ Pass    | <br>☐ Fail |           |
| 6.13 Accesso   |                           |                          |             | _                    | <br>Fail          | _               |                | n Errors F  |                            | Pass          | Fai        |           |
| Test Fixture   |                           |                          |             | <u></u>              |                   | Perfo           | rmed B         | y/Date: _   |                            |               |            |           |
|  |                           |                          |             |                      |                   | '               |                |             |                            |               |            |           |
| 6.16 Load C  | urve                      |                          |             |                      |                   |                 |                |             | ANA                        | LYZER IC      | )#:        |           |
| Mode   | Dia                       | I Setting                |             | Pass/F               | N                 | lode            | Dial Setting   |             | Pass /                     | Fail          |            |           |
| Cut I  |                           | Max W                    |             | Pass                 | 🗌 Pass 🔲 Fail 📗 C |                 | ıt II          | 300W        |                            | Pass          | ☐ Fail     |           |
| Cut I  |                           | 150W                     |             | ☐ Pass               | _                 | ] Fail   Cut II |                | 150W        |                            | ] Pass        | ☐ Fail     | □ N/A     |
| Cut I  |                           | 50W                      |             | ☐ Pass               | F                 | ail Cu          | ıt II          | 50W         | <i>'</i>   [               | Pass          | ☐ Fail     | □ N/A     |
| Blend  |                           | 200W                     |             | ☐ Pass ☐             |                   | ail Piı         | npoint         | 120V        | v   [                      | Pass          | ☐ Fail     |           |
| (Max)<br>Blend   |                           |                          |             | _                    |                   |                 | -              |             |                            | _             |            |           |
| (Max)  |                           | 100W                     |             | ☐ Pass               | F:                | ail Piı         | npoint         | 60W         | <b>'</b>  L                | Pass          | ☐ Fail     |           |
| Blend  |                           | 50W                      |             | ☐ Pass               | □F                | ail             |                |             |                            |               |            |           |
| (Max)  |                           |                          |             |                      |                   |                 |                | 0014        | .                          | <b>☐</b> Pass |            |           |
| Bipolar  | COVA                      | Max W                    |             | Pass                 | F:                | _               | ray            | ·     =     |                            |               | Fail       |           |
| Bipolar<br>Bipolar   |                           | (400W only<br>(200W/300V |             | ☐ Pass               |                   | ail Sp          | ray            | 40W         |                            | ] Pass        | ☐ Fail     |           |
|  |                           |                          | <b>v</b> )  | Fass                 | <u> </u>          | ali             |                |             |                            |               |            |           |
| Performed B  | y / Dat                   | e:                       | -           |                      |                   |                 |                |             |                            |               |            |           |
|  |                           |                          |             |                      |                   |                 |                |             |                            |               |            |           |
| 6.17 Wavefor   |                           |                          |             | LLOSCOPI             | •                 |                 | T              |             | V PROB                     |               |            |           |
| Mode / Setting Observe   |                           |                          | erve        | ed waveform matches: |                   |                 | Mode / Setting |             | Observed waveform matches: |               |            | atches:   |
| Cut I @ Max  | W                         | 200V/Div 2               | 2uS         | ec  Pass             | ☐ Fai             | iI              | Pinpoint @ Max |             | 500V/D                     | iv 10uSed     | C ☐ Pas    | ss 🗌 Fail |
| Cut II @ Max   | Cut II @ Max 200V/Div 2uS |                          |             | ec Pass Fail         |                   |                 | /A Spray @ Max |             | 1000V/                     | Div 10uSe     | ec 🗌 Pas   | s 🗌 Fail  |
| Blend Min@   | 200W                      | 500V/Div                 | l0u\$       | Sec 🗌 Pass           | ☐ Fai             | il              | Bipolar        | · @ Мах     | 200V/D                     | iv 5uSec      | ☐ Pas      | ss 🗌 Fail |
| Blend Max @ 200W   | 9                         | 500V/Div                 | l0u\$       | Sec 🗌 Pass           | ☐ Fai             | ı               |                |             |                            |               |            |           |
| Performed By/Date:   |                           |                          |             |                      |                   |                 |                |             |                            |               |            |           |

DOC-472 Rev. 24 Effective Date: 12/20/11

| <b>Unit Serial</b> | #: |
|--------------------|----|
|                    |    |

| 6.18 Output Pow                                   | er              |               |             |                     | ES ANALY        | <u> </u>   |         |  |
|---|-----------------|---------------|-------------|---------------------|-----------------|------------|---------|--|
| Mode / Setting                                    | Output<br>Range | Outpu         | ıt Power    | Mode /<br>Setting   |                 |            | t Power |  |
| CUT I @ 300 Ω<br>(500 Ω for 400W Watts<br>models) |                 |               | /atts       | BLEND @<br>300 Ω    | Watts           | W          | atts    |  |
| 6   | 1 - 11          | 1 ≤≤          | 11 W        | 6                   | 1 - 11          | 1 ≤        | ≤11 W   |  |
| 50  | 40 - 60         | 40 ≤≤         | 60 W        | 50                  | 40 - 60         | 40 ≤       | ≤ 60 W  |  |
| 100   | 80 – 120        | 80 ≤≤         | 120 W       | 100                 | 80 – 120        | 80 ≤       | ≤ 120 W |  |
| 150   | 120 – 180       | 120 ≤≤        | ≤ 180 W     | 150                 | 120 – 18        | 0 120 ≤    | ≤ 180 W |  |
| 200   | 160 – 240       | 160 ≤≤        | 240 W       | 200                 | 160 – 24        | 0 160 ≤    | ≤ 240 W |  |
| 250 (if applicable)                               | 200 – 300       | 200 ≤≤        | 300 W 🔲     |                     |                 |            |         |  |
| 300 (if applicable)                               | ,               |               |             |                     |                 |            |         |  |
| 400 (if applicable)                               | 320 - 480       | 320 ≤≤        | ≤ 480 W 🔲   |                     |                 |            |         |  |
| Mode / Setting                                    | Output<br>Range | Outpu         | ıt Power    | Mode /<br>Setting   | Output<br>Range | ( )IIITNII | t Power |  |
| Pinpoint @ 500 Watts                              |                 | W             | /atts       | Spray @<br>500 Ω    | Spray @ Watts   |            | Watts   |  |
| 6   |                 |               | 1 W         | 6                   | 1 – 11          | 1 ≤        | ≤ 11 W  |  |
| 60  | 48 72           | ≤ 72 W        |             | 40                  | 32 – 48         | 32 ≤       | ≤ 48 W  |  |
| 120   | 96 – 144        | 96 ≤≤ 144 W   |             | 80                  | 64 – 96         | 64 ≤       | ≤ 96 W  |  |
| Mode / Setting                                    | Output<br>Range | Outpu         | ıt Power    |                     |                 |            |         |  |
| Bipolar @ 150 Ω                                   | Watts           | W             | /atts       |                     |                 |            |         |  |
| 6   | 1 – 11          | 1 ≤≤          | 11 W        |                     |                 |            |         |  |
| 40  | 32 – 48         | 32 ≤≤         | 48 W        |                     |                 |            |         |  |
| 80  | 64 – 96         | 64 ≤≤         | 96 W        |                     |                 |            |         |  |
| 120 (if applicable)                               | 96 - 144        | 96 ≤≤         | 144 W 🔲 N/A |                     |                 |            |         |  |
| Performed By/D                                    | ate:            |               |             |                     | ☐ Pass [        | ] Fail     |         |  |
| 6.19 Presets 6.19.6 Factory F                     |                 | ☐ Pas         | _           | □ N/A □ N/A         |                 |            |         |  |
|   | All Cables      | No            | Cover on,   | No                  | Set Power       | Check DHR  | ]       |  |
| Jumpers   | Securely        | Foreign       | Invert, &   | vert, & Automatic L |                 | and Router |         |  |
| Removed   | Connected       | Material      | Shake       | Activation          | Minimum         |            |         |  |
|   | -               |               |             |                     |                 |            |         |  |
| 6.21 Final Verific<br>InfinityQS Data V           |                 |               | y/ Date:    |                     |                 |            |         |  |
| Accessory Kit Pa                                  | art#            |               | Ac          | cessory Kit         | Lot#            |            |         |  |
| QA Inspection pe                                  | er QA-196 b     | y/ Date:      |             |                     |                 |            | _       |  |
| Packaging Comp                                    | oleted per W    | /I-0387 By/ D | ate:        |                     |                 |            |         |  |

DOC-472 Rev. 24 Effective Date: 12/20/11